

Application No. 10/655,984

AMENDMENTS TO THE CLAIMS

A detailed listing of all claims that are, or were, in the present application, irrespective of whether the claim(s) remains under examination in the application are presented below. The claims are presented in ascending order and each includes one status identifier. Those claims not cancelled or withdrawn but amended by the current amendment utilize the following notations for amendment: 1. deleted matter is shown by strikethrough for six or more characters and double brackets for five or less characters; and 2. added matter is shown by underlining.

1. (Original) A fire resistant door designed to prevent the spread of fire comprising:
  - a frame;
  - a door hingedly connected to the frame;
  - a collapsible supporting member adapted to hold the door spaced from the frame in an open position; and
  - a heat activated self closing mechanism comprising a trigger mechanism including a firing pin, a fusible link plug, and a slave pin spaced from the firing pin by the fusible link plug, wherein the fusible link plug melts when exposed to sufficient heat which enables the firing pin to actuate the slave pin, and wherein the trigger mechanism interacts with the collapsible supporting member to collapse the collapsible supporting member when sufficient heat is applied to the door.
2. (Original) The fire resistant door of claim 1 wherein the trigger mechanism further comprises a compression spring biased against the firing pin, which actuates the firing pin when the fusible link plug melts.

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3. (Original) The fire resistant door of claim 2, wherein the fusible link plug further comprises a melting core, wherein the melting of the melting core allows the compression spring to drive the firing pin against the slave pin.

4. (Canceled)

5. (Original) The fire resistant door of claim 4 wherein the collapsible supporting member further comprises a gas spring having a pressurized cylinder core and a pressure release valve.

6. (Original) The fire resistant door of claim 5 further comprising a threaded hollow stud adapted to be connected to the pressure release valve, wherein the slave pin can move into the threaded hollow stud and engage the pressure release valve to bleed gas out of the pressurized cylinder core.

7. (Canceled)

8. (Original) The fire resistant door of claim 1 wherein the door has a bottom wall, a top wall and side walls, and wherein the top and side walls comprise aluminum material.

9. (Original) The fire resistant door of claim 8 wherein the bottom wall comprises an outside surface and wherein a layer of intumescent material is applied to the outside surface of the bottom wall.

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10. (Original) The fire resistant door of claim 8 wherein the top wall comprises an outside surface and wherein no cementitious material is applied to the outside surface of the top wall.

11. (Original) The fire resistant door of claim 1 wherein the frame further comprises a flange adapted to engage the door when the door is in a closed position.

12. (Original) The fire resistant door of claim 11 wherein the flange further comprises a fiberglass gasket connected to the flange.

13. (Currently amended) A fire resistant door designed to prevent the spread of fire comprising:

a frame;

a heat activated self closing mechanism including a trigger mechanism and  
a collapsible supporting member;

a door hingedly connected to the frame, the door having a bottom wall, a top wall, and side walls, the bottom wall having an outside surface and the top wall having an outside surface, wherein the door is horizontally hinged to the frame; and

a layer of intumescent material on the outside surface of the bottom wall, and the outside surface of the top wall being clear of additional insulating materials.

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14. (Original) The fire resistant door of claim 13 wherein the top wall is clear of cementitious material.

15. (Canceled)

16. (Currently amended) The fire resistant door of claim 1[[5]]3 wherein the trigger mechanism further comprises a firing pin, a fusible link plug, and a slave pin spaced from the firing pin by the fusible link plug.

17. (Original) The fire resistant door of claim 16 wherein the trigger mechanism further comprises a compression spring biased against the firing pin, which actuates the firing pin when the fusible link plug melts.

18. (Original) The fire resistant door of claim 17 wherein the fusible link plug further comprises a melting core, wherein the melting of the melting core allows the compression spring drive the firing pin against the slave pin.

19. (Original) The fire resistant door of claim 15 wherein the trigger mechanism interacts with the collapsible supporting member to collapse the collapsible supporting when sufficient heat is applied to the door.

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20. (Original) The fire resistant door of claim 13 wherein the door has a bottom wall, a top wall and side walls, and wherein the top and side walls comprise aluminum material.
21. (Original) A fire resistant door designed to prevent the spread of fire comprising:
- a frame;
  - a door hingedly connected to the frame;
  - a collapsible supporting member adapted to hold the door spaced from the frame in an open position; and
  - a heat activated self closing mechanism comprising a trigger mechanism including a firing pin and a fusible link, wherein the fusible link melts when exposed to sufficient heat which actuates the firing pin, and wherein the trigger mechanism interacts with the collapsible supporting member to collapse the collapsible supporting member when sufficient heat is applied to the door.